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WHAT IS CLAIMED:

- 1. A stretch fabric material composed of a Raschel warp knit fabric in which loops of tuck warp are engaged with loops of a ground fabric structure, wherein the fabric has an elongation of at least 20% in the warp direction.
- 2. A stretch fabric material as defined by claim 1, wherein the ground fabric structure is selected from a group of a chain stitch, a dembigh-stitch and a queen's cord or a combination thereof.
- 3. A stretch fabric material as defined by claim 1, wherein the loop of the tuck warp is formed by a fallplate.
- 4. A stretch fabric material as defined by claim 1, wherein the tuck warp is a synthetic fiber yarn having a size of at least 16.0 dtex.
- 5. A stretch fabric material as defined by claim 1, wherein the Raschel warp knit fabric is a double-sided fabric knit by a double-needle bar type Raschel warp knitting machine with a fall-plate.
- 6. A reinforced plastic-molded object using, as a substrate, a stretch fabric material composed of a Raschel warp knit fabric in which loops of tuck warp are engaged with loops of a ground fabric structure, wherein the fabric has an elongation of at least 20% in the warp direction.
- 7. A stretch fabric material for a medical use composed of a Raschel warp knit fabric in which loops of tuck warp are engaged with loops of a ground fabric structure, wherein the fabric has an elongation of at least 20% in the warp direction.
- 8. A stretch fabric material for a medical use as defined by claim 7, wherein the tuck warp is a synthetic fiber monofilamentary yarn having a size of at least 55.0 dtex.
- 9. A bandage of a stretch fabric material for a medical use as defined by claim 7, wherein the tuck warp

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is a synthetic fiber monofilamentary yarn having a size of at least 55.0 dtex.

- 10. A orthopedic casting material formed of a stretch fabric material composed of a Raschel warp knit fabric in which loops of tuck warp are engaged with loops of a ground fabric structure, wherein the fabric has an elongation of at least 20% in the warp direction.
- 11. A stretchable body-bandaging material wherein a tuck yarn is a synthetic monofilamentary yarn having a size of at least 55.0 dtex or a composite yarn containing the monofilamentary yarn.